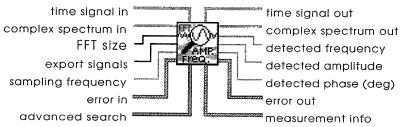
Appendix A

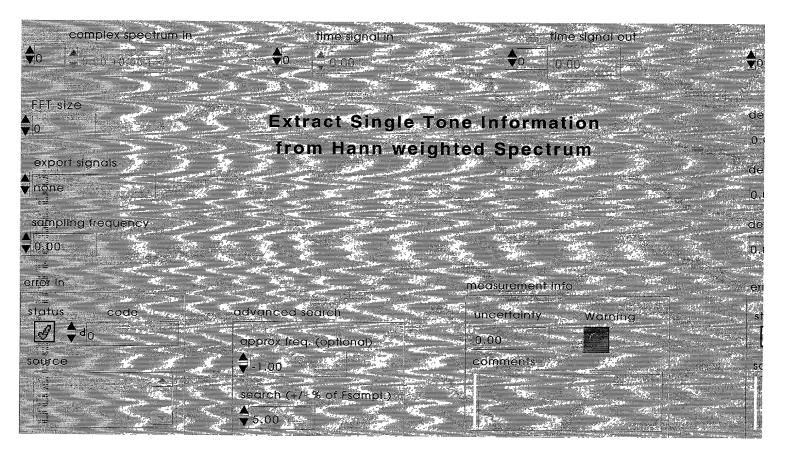
Source Code

The following pages comprise a LabView TM virtual instrument, i.e. source code for a program written in the LabView TM graphical programming language.



Extract Single Tone Information from Hann Spectrum with comments.vi

ront Panel



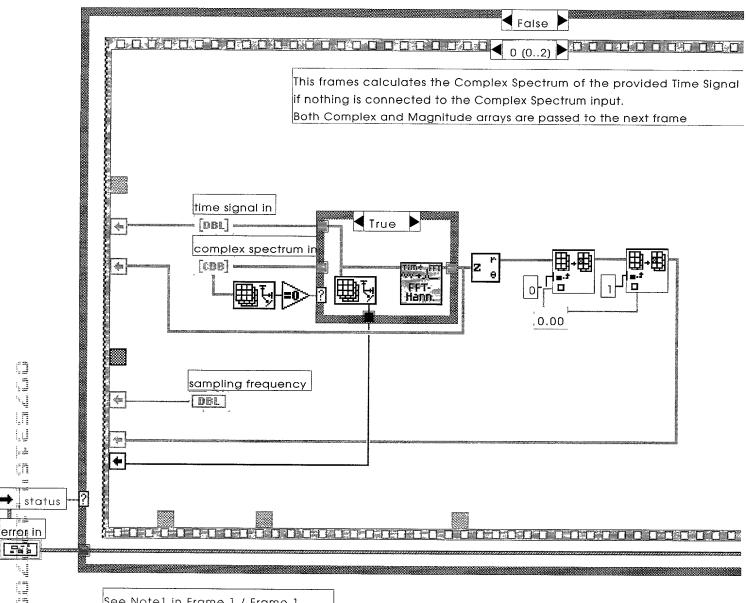
ected frequency

octed amplitude

octed phase (deg)

or out

dus code



See Note1 in Frame 1 / Frame 1

Note2: See Frame 2 / Frame 0

In this frame the phase information needed to compute the complex error signal for the relevant bins is extracted (**) Then the complex values for the relevant bins is extracted (***) and the computed complex error (****) is subtracted from (***) resulting in a corrected complex spectrum values that are re-inserted in the original spectrum.

Note3: See Frame 2 / Frame 2

In this frame the phase information of the detected tone (not the relevant bins) is computed based on the value of the phase at bin (Kmax -1) and the corrected value of DeltaK

